

## Murtfeldt Material "S"® 1000 RB Polyethylene, High Friction

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

### Material Notes:

An elastomer in Material "S"® 1000 RB gives it high impact resistance and skid resistance. Special Properties: • High coefficient of friction • Good wear and abrasion resistance Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Murtfeldt-Material-S-1000-RB-Polyethylene-High-Friction.php](http://www.lookpolymers.com/polymer_Murtfeldt-Material-S-1000-RB-Polyethylene-High-Friction.php)

| Physical Properties                | Metric        | English                      | Comments |
|------------------------------------|---------------|------------------------------|----------|
| Density                            | <= 0.950 g/cc | <= 0.0343 lb/in <sup>3</sup> | ISO 1183 |
| Moisture Absorption at Equilibrium | <= 0.010 %    | <= 0.010 %                   | ISO 62   |
| Water Absorption at Saturation     | <= 0.010 %    | <= 0.010 %                   | ISO 62   |

| Mechanical Properties            | Metric                    | English                       | Comments   |
|----------------------------------|---------------------------|-------------------------------|------------|
| Hardness, Shore D                | 61 - 63                   | 61 - 63                       | DIN 53505  |
| Ball Indentation Hardness        | 38.0 MPa                  | 5510 psi                      |            |
| Charpy Impact, Notched           | >= 8.00 J/cm <sup>2</sup> | >= 38.1 ft-lb/in <sup>2</sup> | ISO 179    |
| Coefficient of Friction, Dynamic | >= 0.30                   | >= 0.30                       |            |
| Sand Slurry                      | 150                       | 150                           | value in % |

| Thermal Properties               | Metric                      | English                            | Comments   |
|----------------------------------|-----------------------------|------------------------------------|------------|
| CTE, linear                      | 200 µm/m-°C                 | 111 µin/in-°F                      |            |
|                                  | @Temperature 23.0 - 60.0 °C | @Temperature 73.4 - 140 °F         |            |
| Thermal Conductivity             | 0.400 W/m-K                 | 2.78 BTU-in/hr-ft <sup>2</sup> -°F | ISO 52612  |
| Melting Point                    | 130 - 135 °C                | 266 - 275 °F                       | ISO 3146   |
| Maximum Service Temperature, Air | 90.0 °C                     | 194 °F                             | Short Term |
|                                  | 80.0 °C                     | 176 °F                             |            |
|                                  | @Time 1.80e+7 sec           | @Time 5000 hour                    |            |
| Minimum Service Temperature, Air | -100 °C                     | -148 °F                            |            |
| Glass Transition Temp, Tg        | -120 °C                     | -184 °F                            |            |
| Flammability, UL94               | HB                          | HB                                 |            |

| Compliance Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| FDA                   | No     | No      |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Black |          |

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